

FIG. 1

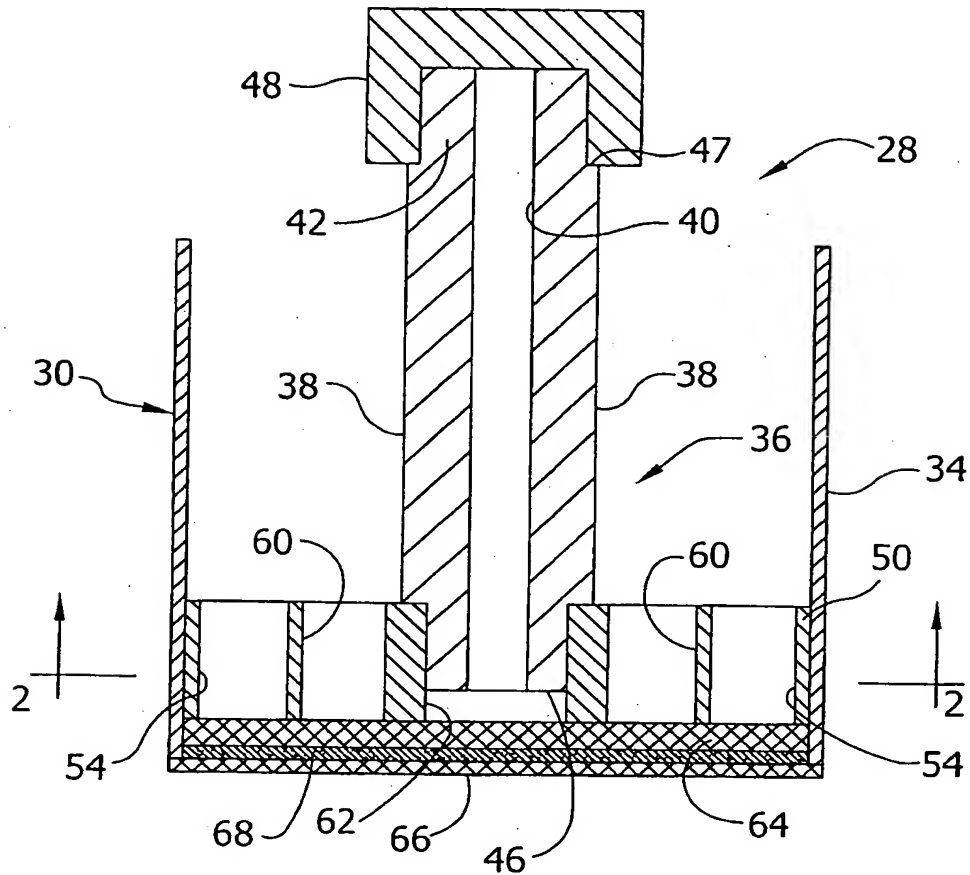


FIG. 2

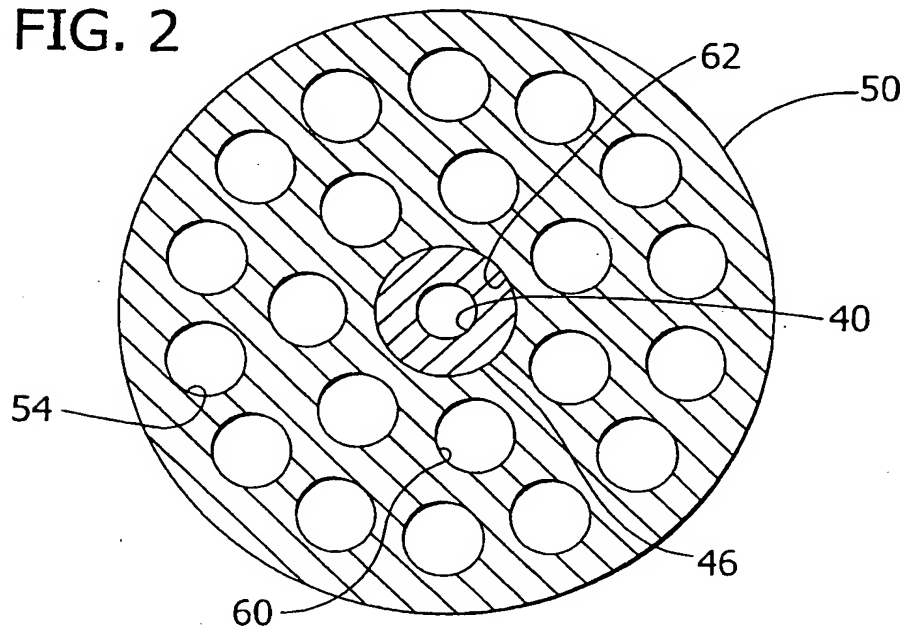


FIG. 3

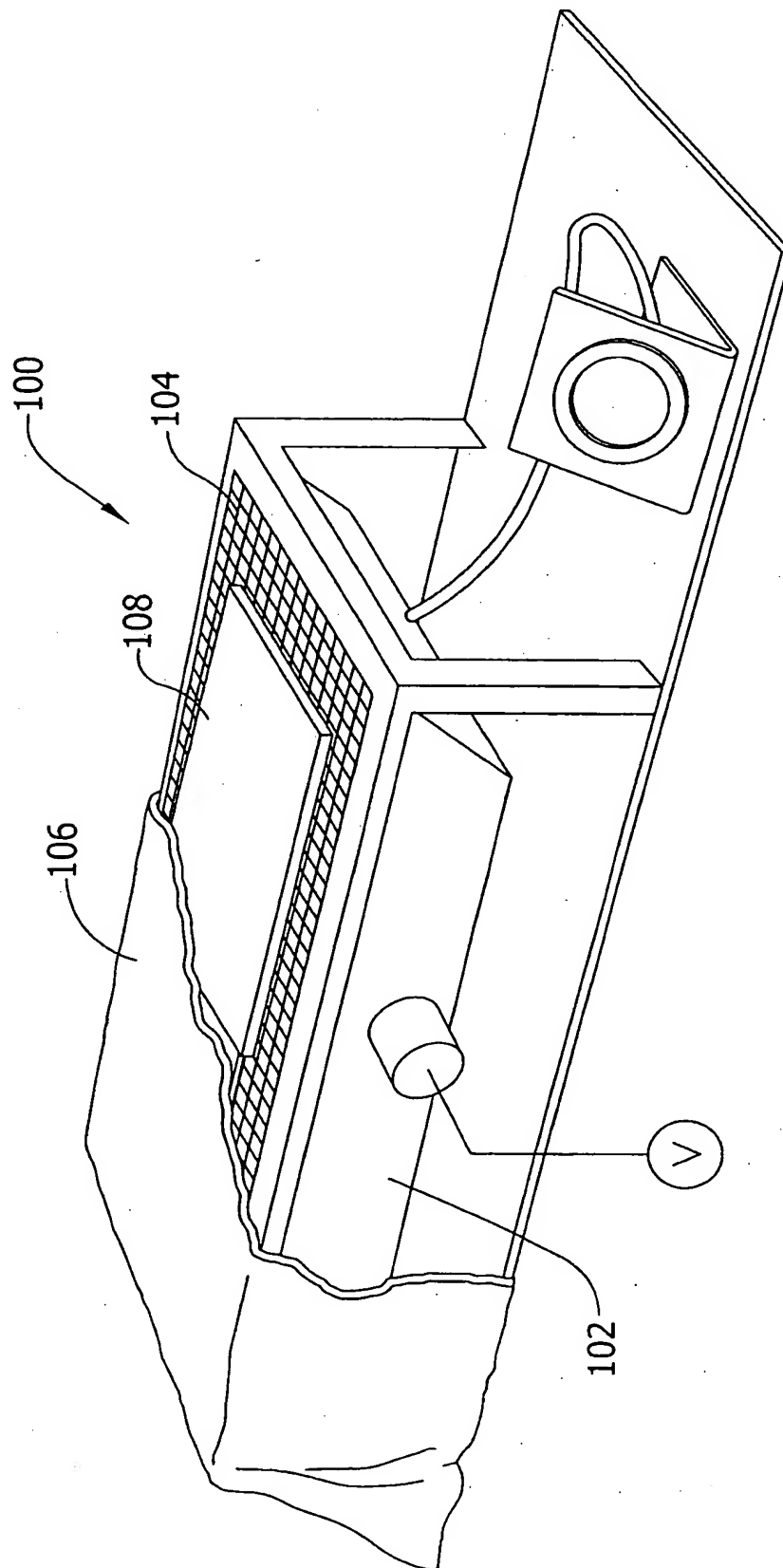


FIG. 4

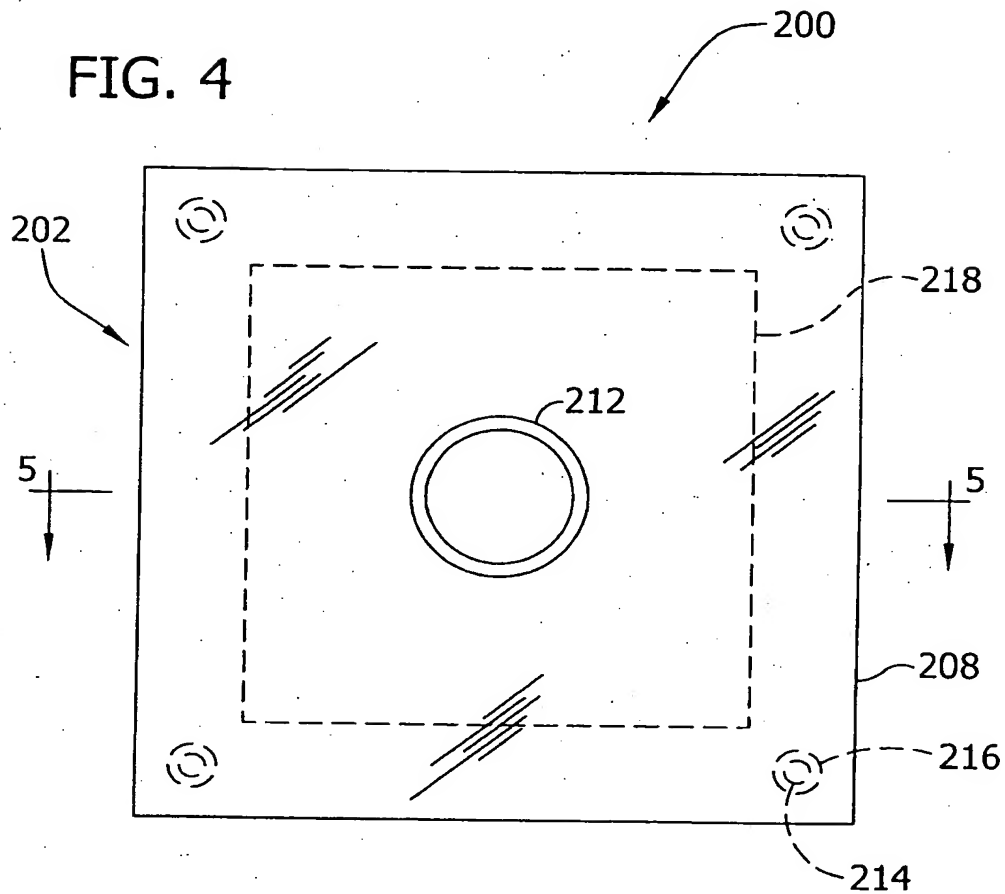


FIG. 5

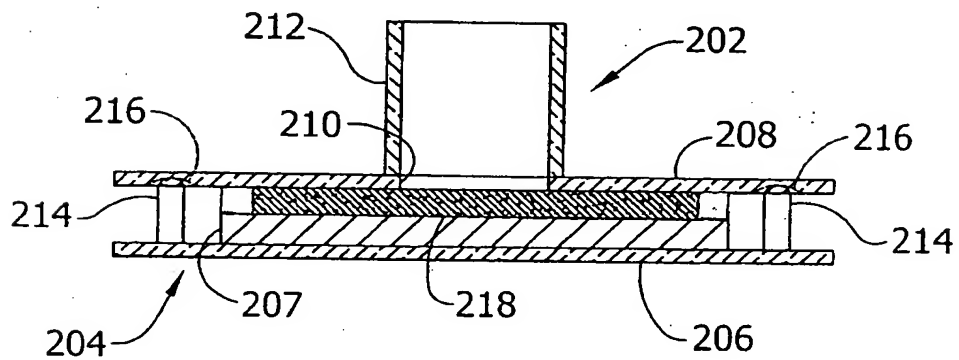


FIG. 6

CP = Composite Permeability													
SAP Type	Fiber Type	SAP Type	Fiber Type	SAP CRC (g/g)	Fiber CRC (g/g)	0.5% Sat Cap (g/g)	Perm (μm²)	CP Dry Den (g/cc)	CP BW (gsm)	CP Void Volume (cc/g)	FIE Insult1 (mils)	FIE Insult2 (mils)	FIE Insult3 (mils)
Dry Dry FIE Thick1 FIE Thick2 FIE Thick3 Initial FIE													
Wt (g)													
II	II	PVA9543	EXCELL	22.1	0.78	17.0	108.5	0.119	478.8	9.8	1.72	2.65	1.32
II	II	PVA9543	EXCELL	22.1	0.78		113.6	0.125	478.8	10.2	2.39	2.55	1.23
II	II	PVA9543	EXCELL	22.1	0.78		112.8	0.115	464.9	9.2	2.18	2.21	1.04
Avg	II	PVA9543	EXCELL	22.1	0.78	17.0	111.6	0.120	474.2	9.7	2.10	2.47	1.20
II	II	PVA9543	IPSSN	22.1	1.13	17.2	113.0	0.081	444.1	9.2	1.59	16.92	4.94
II	II	PVA9543	IPSSN	22.1	1.13		114.5	0.130	475.3	9.8	1.38	15.63	3.18
II	II	PVA9543	IPSSN	22.1	1.13		125.7	0.132	440.6	9.4	1.54	14.14	2.55
Avg	II	PVA9543	IPSSN	22.1	1.13	17.2	117.7	0.114	453.3	9.5	1.50	15.56	3.56
II	II	PVA9543	EXCELL	23	0.78	15.9	57.8	0.127	482.7	7.6	2.90	4.26	2.66
II	II	SXM9543	EXCELL	23	0.78		64.6	0.125	475.3	8.0	2.56	5.26	4.24
II	II	SXM9543	EXCELL	23	0.78		62.0	0.126	482.3	7.7	2.61	6.12	5.04
Avg	II	SXM9543	EXCELL	23	0.78	15.9	61.5	0.126	483.4	7.8	2.69	5.21	3.98
II	II	SXM9543	IPSSN	23	1.13	16.5	90.2	0.135	454.5	7.7	1.98	13.93	11.46
II	II	SXM9543	IPSSN	23	1.13		84.1	0.122	461.5	7.1	1.89	8.58	8.10
II	II	SXM9543	IPSSN	23	1.13		87.6	0.116	430.2	7.8	1.91	5.39	5.39
Avg	II	SXM9543	IPSSN	23	1.13	16.5	87.3	0.124	448.7	7.5	1.93	9.30	8.32
II	II	PVA9543	CHITO	22.1	0.87	15.1	155.8	0.125	482.3	11.9	0.96	13.46	12.42
II	II	PVA9543	CHITO	22.1	0.87	16.8	134.3	0.114	458.0	10.3	1.19	14.49	12.14
II	II	PVA9543	CHITO	22.1	0.87		131.3	0.110	468.4	10.7	1.11	12.95	12.95
Avg	II	PVA9543	CHITO	22.1	0.87	15.9	140.5	0.116	469.6	11.0	1.09	13.63	12.50
II	II	SXM9543	CHITO	23	0.87	16.9	111.9	0.104	485.7	10.0	1.71	4.50	2.32
II	II	SXM9543	CHITO	23	0.87	17.3	89.3	0.122	492.7	8.9	1.55	5.33	3.91
II	II	SXM9543	CHITO	23	0.87		109.4	0.125	503.1	9.3	1.71	4.01	1.98
Avg	II	SXM9543	CHITO	23	0.87	17.1	103.5	0.117	493.8	9.4	1.66	4.61	2.74
II	II	SXM9543	CHITO	23	0.87								
Avg	II	SXM9543	CHITO	23	0.87								

FIG. 7
Composite Free Swell Permeability

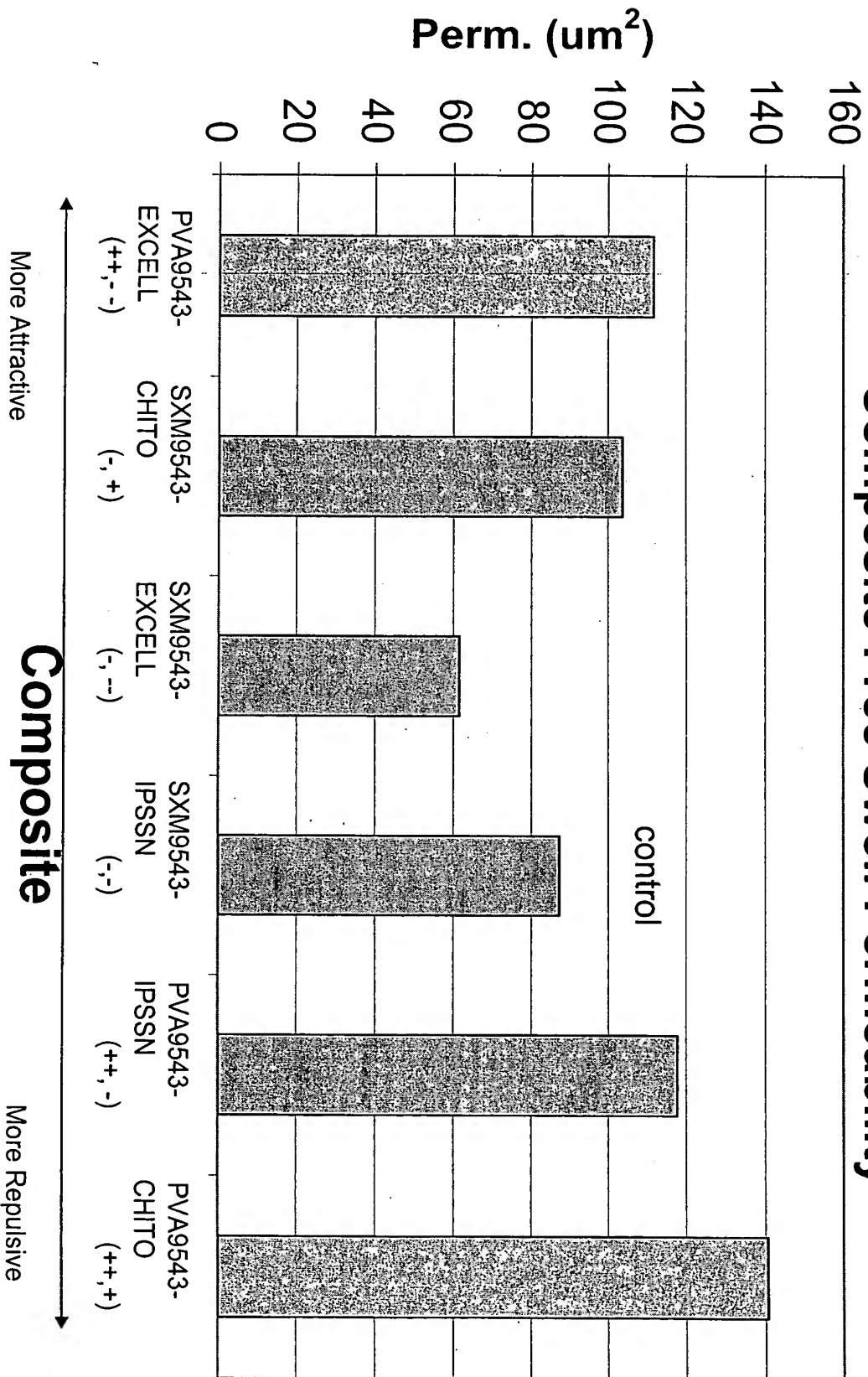


FIG. 8
Void Volume vs. Permeability

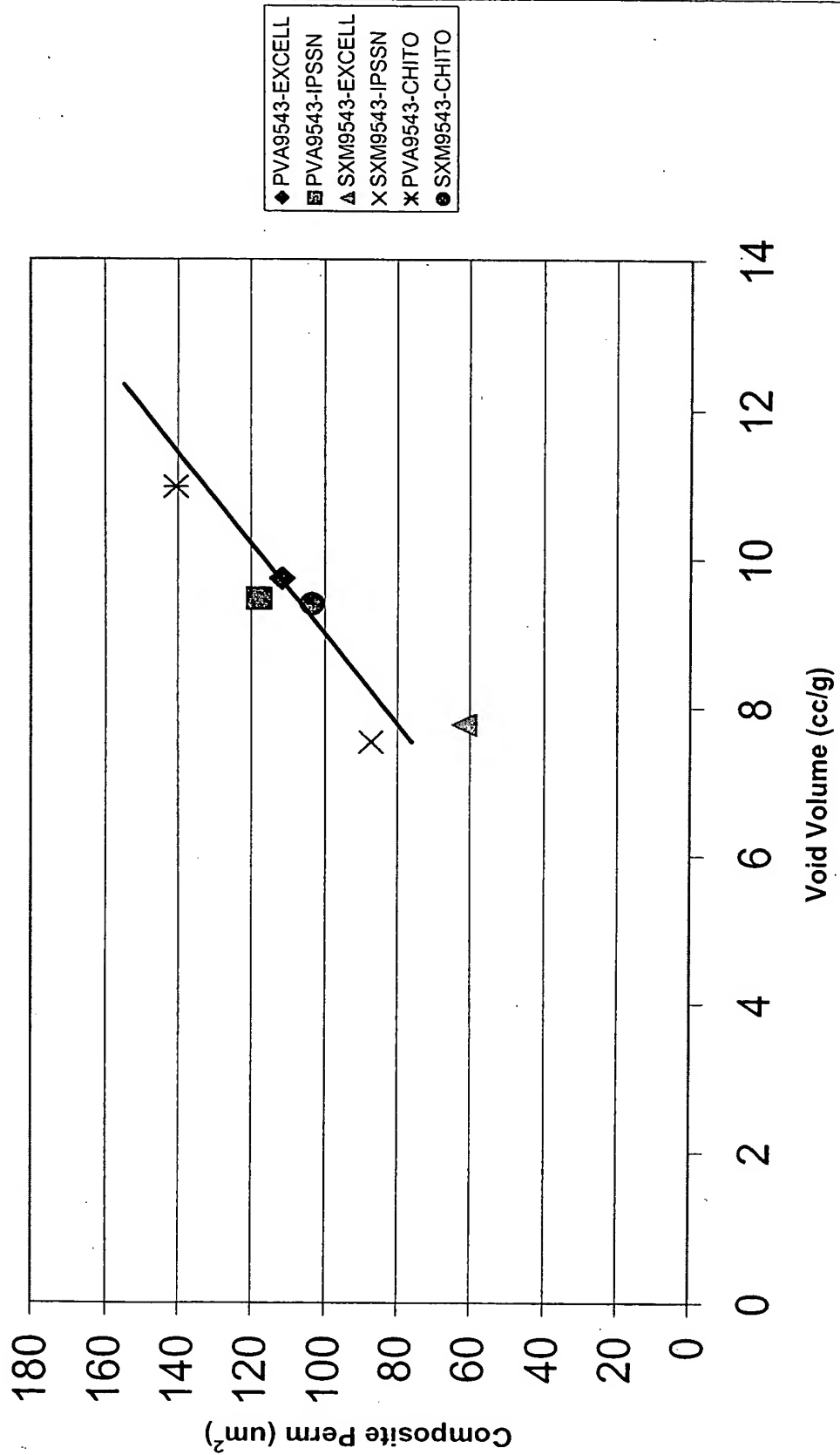


FIG. 9
Fluid Intake Rate

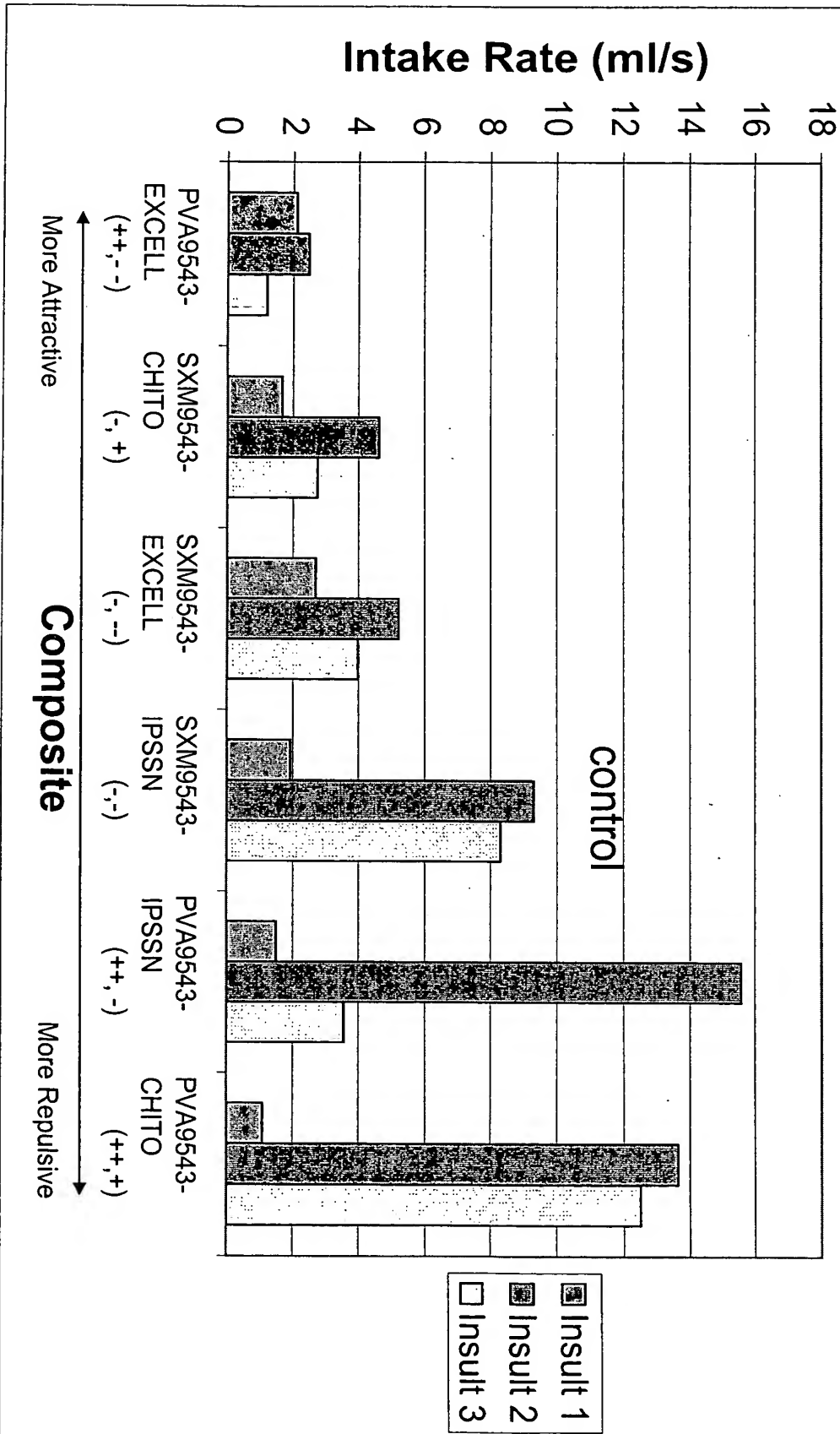


FIG. 10
Sample Thickness vs. Intake Rate

